

## **ABSTRACT OF THE DISCLOSURE**

Herein disclosed is a wireless headphone apparatus, comprising: a plurality of light signal receiving units each for receiving a light signal to produce an electric signal having a signal level; a plurality of light signal limiting units respectively connected  
5 with the plurality of light signal receiving units in one to one relationship, each of the light signal limiting units operative to allow only an electric signal having a signal level lower than a predetermined threshold value to pass therethrough and delete an electric signal having a signal level equal to or greater than the predetermined threshold value; a  
10 signal synthesizing unit for synthesizing the electric signals passed through the light signal limiting units to produce a synthesized electric signal; and speaker means for outputting a sound in response to the synthesized electric signal.